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Application No. 10/519,419

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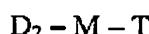
**AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

Claims 1-10 (Cancelled)

Claim 11. (Currently Amended) An antitumor pharmaceutical composition having an antitumor effect in cases of adenocarcinoma, leukemia, melanoma and sarcoma, comprising at least one complex of the general formula



where

D is a  $\beta$ -diketone,

M is a metal atom selected from the group consisting of Cr, Cu, Mn, Fe, Ni, Co, Zn and Mo,

T is a substance having at least one N, O or S containing group phenylalanine, and

where M participates in an electron donor-acceptor interaction with T, and M in the complex has a free coordination site.

Claim 12. (Currently Amended) The antitumor pharmaceutical composition as claimed in claim 11, wherein D is selected from acetylacetone and dibenzoylmethane.

Claim 13. (cancelled)

Claim 14. (Currently Amended) The antitumor pharmaceutical composition as claimed in claim 11, wherein T is a substance selected from the group consisting of 2,4-dihydroxy-5-fluoropyrimidine, 5-fluoro-1-(tetrahydro-2-furyl) uracil, 2-[bis(2-

Application No. 10/519,419

~~chloroethyl) amino] tetrahydro 2H 1,3,2-oxazeposphorine 2-oxide, 1,2-imido propanoic amide, 2-hydroxymethyl-5-hydroxy- $\gamma$ -pyrone, 2,4,6-trimethylpyridine, 2,4,6-tri-2-pyridyl-1,3,5-triazine, 4-[bis (2-chloroethyl)amino]-L-phenylalanine, 2-(3-pyridyl)piperidine, 2,2'-bipyridine, 2-methyl-(5-trimethylbutyl-1-11-ol-3)pyridine, 2-methyl-(3-dimethyl-amino-1-propynyl)pyridine and 2-methyl-5-ethylenepyridine.~~

Claim 15. (Currently Amended) ~~An antitumor pharmaceutical~~ composition of the general formula

$D_2 - M - T$

in which D is acetylacetone, M is Cu and T is a substance selected from the group consisting of

~~2,4-dihydroxy-5-fluoropyrimidine, 5-fluoro-1-(tetrahydro-2-furyl)uracil, 2-[bis(2-chloroethyl) amino] tetrahydro 2H 1,3,2-oxazeposphorine 2-oxide, 1,2-imido propanoic amide, 2-hydroxymethyl-5-hydroxy- $\gamma$ -pyrone, 2,4,6-trimethylpyridine, 2,4,6-tri-2-pyridyl-1,3,5-triazine, 4-[bis (2-chloroethyl)amino]-L-phenylalanine, 2-(3-pyridyl)piperidine, 2,2'-bipyridine, 2-methyl-(5-trimethylbutyl-1-11-ol-3)pyridine, 2-methyl-(3-dimethyl-amino-1-propynyl)pyridine and 2-methyl-5-ethylenepyridine.~~

Claim 16. (Currently Amended) ~~An antitumor pharmaceutical~~ composition of the general formula

$D_2 - M - T$

in which D is acetylacetone, M is Mn and T is a substance selected from the group consisting of

~~2,4,6-trimethylpyridine, 2,4,6-tri-2-pyridyl-1,3,5-triazine, 2,2'-bipyridine, 2-(3-pyridyl)piperidine, 1,2-imido propanoic amide and 4-[bis (2-chloroethyl)amino]-L-phenylalanine.~~

Application No. 10/519,419

Claim 17. (Currently amended) Complex of the general formula

$D_2 - M - T$

in which D is acetylacetone, M is Cu and T is a substance selected from the group consisting of 2,4-dihydroxy-5-fluoropyrimidine, 5-fluoro-1-(tetrahydro-2-furyl)-uracil (tegafur), 2-[bis(2-chloroethyl)amino]tetrahydro-2H-1,3,2-exazeposphorine-2-oxide, 1,2-imidopropyl acid amide, 2-hydroxymethyl-5-hydroxy-9-pyrene, 2,4,6-trimethyl-pyridine, 2,4,6-tri-2-pyridyl-1,3,5-triazine, 4-[bis(2-chloroethyl)amino]-L-phenylalanine, 2-(3-pyridyl)piperidine, 2,2'-bipyridine, 2-methyl-(5-trimethylbutyl)-1-(3-pyridine, 2-methyl-(3-dimethylamino-1-propynyl)pyridine and 2-methyl-5-ethylenepyridine.

Claim 18. (Currently amended) Complex of the general formula

$D_2 - M - T$

in which D is acetylacetone, M is Mn and T is a substance selected from the group consisting of 2,4,6-trimethyl-pyridine, 2,4,6-tri-2-pyridyl-1,3,5-triazine, 2,2'-bipyridine, 2-(3-pyridyl)piperidine, 1,2-imidopropyl acid amide and 4-[bis(2-chloroethyl)amino]-L-phenylalanine.